

## FIG.1A

Sequence of cadherin 3 (GenBank accession number NP\_001784)

SEQ ID NO:1

MGLPRGLASLLLLQVCWLQCAASEPCRAVFREAETLEAGGAEQEPGQALGK  
VFMGCPGQEPALFSTDNDDEFVNRNGETVQERRSLKERNPLKIFPSKRILRRHKRD  
WVVAPISVPENGGKPPQRLNQLKSNKDRDTKIFYSITGPGADSPPEGVFAVEKE  
TGWLLLNKPLDREEIAKYELFGHAVSENGASVEDPMNISIIVTDQNDHKPKFTQD  
TERGSVLEGVLPGTSVMQVTATDEDDAIYTYNGVVAYSISHSQEPKDPHDLMFTI  
HRSTGTISVISSGLDREKVPEYTLTIQATMDGDGSTTTAVAVVEILDANDNAPM  
FDPQYEAHVPENAVGHVQRLTVTDLDAPNSPAWRATYLMGGDDGDHFTITT  
HPESNQGILTRKGLDFEAKNQHTLYVEVTNEAPFVLKLPSTATIVVHVEDVNE  
APVFVPPSKVVEVQEGIPTGEPVCVYTAEDPDKENQKISYRILRDPAGWLAMDPD  
SGQVTAVGTLDREDEQFVRNNIYEVMLAMDNGSPPTTGTGTLTLLTLDVNDHG  
PVPEPRQITICNQSPVRHVNLNITDKDLSPTSPFQAQLTDDSDIYWTAEVNEEGDT  
VVLCLKKFLKQDTYDVHLSLSDHGNKEQLTVIRATVCDCHGHVETCPGPWKGG  
FILPVLGAVLALLFLLVLLLVLRKKRKIKEPILLPEDDTRDNVFFYGEEGGEE  
DQDYDITQLHRGLEARPEVLRNDVAPTIIPTMYRPRPANPDEIGNFIIENLKAA  
NTDPTAPPYDTLLVFDYEGSGSDAASLSSLTSSASDQDDYDYLNEWGSRFKKL  
ADMYGGGEDD

## FIG.1B

Sequence of matrix metalloproteinase 14

(GenBank accession number NP\_004986)

SEQ ID NO:2

MSPAPRPPRCLLPLLTGLTALASLGSQSSSFSEAWLQQYGYLPPGDLRTHTQ  
RSPQSLSAIAAMQKFYGLQVTGKADADTMKAMRRPRCGVPDKFGAEIKANVR  
RKRYAIQGLKWQHNEITFCIQNYTPKVGEYATYEAIRKAFRVWESATPLRFREVP  
YAYIREGHEKQADIMIFFAEGFHGDSTPFDGEGGFLAHAYFPGPNIGDTHFD  
SAEPWTVRNEDLNGNDIFLVAVHELGHALGLEHSSDPSAIMAPFYQWMDTENFVLP  
DDRRGIQQLYGGESGFPTKMPPQPRTTSRPSVPDKPKNPTYGPNICDGNFDTVA  
MLRGEMFVFKERFWVRNQNQVMDGYPMPIGQFWRGLPASINTAYERKDGKF  
VFFKGDKHWVFEASLEPGYPKHIKELGRGLPTDKIDAALFWMPNGKTYFFRGN  
KYRFRNEELRAVDSEYPKNIKVWEGIPESPRGSFMGSDEVFTYFYKGNKYWKFN  
NQKLKVEPGYPKSALRDWMGCPSGGRPDEGTEETEVIIEVDEEGGGAVSAAA  
VVLPLVLLLVAVGLAVFFFRRHGTPRRLLLYCQRLLDKV

## FIG.1C-1

Sequence of cadherin EGF LAG seven-pass G-type receptor 2  
(GenBank accession number NP\_001399)

SEQ ID NO:3

MRSPATGVPLPTPPPLLLLLLLLLPPPLLDQVGPCRSLGSRGRGSSGACAPMG  
WLCPSASNLWLWYTSRCRDAGTELTGHLVPHHDGLRVWCPESEAHILPPAPEG  
CPWSCRLIGIGGHLSPQGKLTLPPEHPCLKAPRLRCQCKLAQAPGLRAGERSPE  
ESLGRRKRNVNTAPQFQPPSYQATVPENQPAQTPVASLRAIDPDEGEAGRLEYT  
MDALFDSRSNQFFSLDPVTGAVTTAEELDRETKSTHVFRVTAQDHGMPRRSALA  
TLTILVTDNDHDPVFEQQEYKESLRENLEVGVEVLTVRATDGDAPPNANILYRL  
LEGSGSPSEVFEIDPRSGVIRTRGPVDREEVESYQLTVEASDQGRDPGPRSTTAA  
VFLSVEDDNDNAPQFSEKRYVVQVREDVTPGAPVLRVTASDRDKGSNAVVHYSI  
MSGNARGQFYLDAAQTGALDVVSPLDYETTKETTLRVRAQDGGRPPLSNVSGLV  
TVQVLDINDNAPIFVSTPFQATVLESVPLGLVLHVQAIDADAGDNARLEYRLAG  
VGHDFPFTINNGTGWISVAAELDREEVDYFSGVEARDHGTPALTASASVSVTVL  
DVNDNNPTFTQPEYTVRLNEDAAVGTSVVTVSAVDRDAHSVITYQITSGNTRNR  
FSITSQSGGLVSLALPLDYKLERQYVLAVTASDGTQRQDTAQIVNVNVDANTHRP  
VFQSSHYYTVNVNEDRPAGTTVVLISATDEDTGENARITYFMEDSIPQFRIDADTG  
AVTTQAEILDYEDQVSYTLAITARDNGIPQKSDTTYLEILVNDVNDNAPQFLRDSY  
QGSVYEDVPFTSVLQISATDRDSGLNGRVFYTFQGGDDGDGFIVESTSGIVRT  
LRRLDRENVAAQYVLRAYAVDKGMPPPARTPMEVTVTVLDVNDNPPVFEQDEFDV

TO FIG.1C-2

FROM FIG.1C-1

## FIG.1C-2

FVEENSPIGLAVARVTATDPDEGTNAQIMYQIVEGNIPEVFQLDIFSGETALVDL  
DYEDRPEYVLVIQATSAPLVSRA TVHVRLLDRNDNPPVLGNFEILFNYYVTNRSS  
SFPGGAIGRVP AHPDIDSDSLTYSFERGNELSVLLNASTGELKLSRALDNNRPLE  
AIMSVLSDGVH SVTAQCALRVTIITDEMLTHSITLRL EDMSPERFLSPLLGLFIQA  
VAATLATPPDHVVFN VQORDTAPGGHILNVSLSVGQPPGPGGPPFLPSEDLQE  
RLYLNRSLLT AISAQRVLPFDDNICLREPCENYMRCSVLRFDSSAPFIASSSVLFR  
PIHPVGGLRCRCPPGFTGDYCE TEVDLCYSRPCGPHGCRSREGGYTCLCRDGYT  
GEHCEVSARSGRCTPGVCKNGGTCVNLLVGGFKDCPSGDFEKP YCQVTTRSEF  
AHSFITFRGLRQRFHFTLALS FATERDGLLLYNGRFNEKHDFVALEVIOEQVQL  
TFSAGESTTVSPFPVPGVSDGQWHTVQLKY NKPLLGTGLPQGPSEQKVAVV  
TVDGCDTGVALRFGSVLGNYSCAAQGTQGGSKKSLDLTGPLLLGGVPDLPESFP  
VRMRQFVGCMRN LQVDSRHIDMA DFIANNGTVPGPCPAKKNVCDSENTCHNGGT  
CVNQWDAFSCECPLGFGGKSCAQEMANPQHFLGSSLVAWHGLSLPISQPWYLSL  
MFRTRQADGVLLQAITRGRSTITLQ LREGHVMLSVEGTGLQASSLRLEPGRAND  
GDWHHAQLALGASGGPGHAILSF DYGQQRAEGNLGPRLHGLHLSNITVGGIPGP  
AGGVARGFRGCLQGV RVSDTPEGVNSLDPSHGESINVEQGC SLDPDCDSNPCPA  
NSYCSNDWD SYSCSDPGYYGDNCTNVCDLNPC EHQSVC TRKPSAPHGYTCEC  
PPNYLGPYCETRIDQPCPRGWWGHPTCGPCNCDVSKGFDPDCNKTSGECHCKEN

TO FIG.1C-3

FROM FIG.1C-2

### FIG.1C-3

HYRPPGSP TCLDCYPTGSLSRVCDPEDGQCCKPGVIGRQCDCRCDNPF AEVTT  
NGCEVNYDSCPRAIEAGIWWPRTRFGLPAAAPCKPGSFGTAVRHCD EHRGWLPP  
NLFNCTSI TTFSELKGAERLQRNESGLDSGRSQQLALLRNATQHTAGYFGSDVK  
VAYQLATRLLAHESTQRGFLSATQDVHFTENLLRVGSALLDTANKRHWELIQQ  
TEGGTAWLLQHYEAYASALAQNMRHTYLSPFTIVTPNIVISVVR LDKGNFAGAK  
LPRYEALRGEQPPDLETTVILPESVFRET PPVVRPAGPGAQEP EELARRQRRHPE  
LSQGEAVASV I IYRTLAGLLPHNYDPDKRSLRVPKRPIINTPVVSI SVHDEELLPR  
ALDKPVTVQFRLL ETEERTKPICVFWNH S I LVSGTGGWSARGCEVVF RNE SHVSC  
QCNHMTSFAV LMDVSRREN GEILPKLTLYVALGVT L AALLTFFFLTLLRILRS  
NQHGIRNLTAALGLAQLVFL LGINQADLPFACTVIA ILLHFLYLCTFSWALLEAL  
HLYRALTEVRDVNTGPMRFYYMLGWGVPAFITGLAVGLDPEGYGNPD F C WLSI  
YDTLIWSFAGPVAFVMSVFLYI LAARASCAAQRQGF EKKG PVSGLQPSFAVLL  
LLSATWLLALLSVNSDTLLFHYLFATCNCIQGPFIFLSYV VLSKEVRKALKACSR  
KPSDPALTTKSTLTSSYNCPSPYADGRLYQPYGDSAGSLHSTSRSGKSQPSYIPF  
LLREESALNPGQGPPGLGDPGSLFLEGDQDQHDPTDSDSDLSLEDDQSGSYAST  
HSSDSEEEEEEEEAFFGEQGWDSL LGPGAERLPLHSTPKDGGPGPKAPWPG  
DFGTTAKESGNGAPEERLRENGDALSRGSLGPLGSSA QPHKGILKKKCLPTIS  
EKSSLLRLPLEQCTGSSRGSSASEGSRGPPPPPPRQSLQEQLNGVMP IAMSIKA  
GTVDEDSGSEFLFFNFLH

**FIG. 1D**

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Peptides for antibodies that bind to cadherin3  
(GenBank accession number NP\_001784):

RAVFREA EVTLEAGGAEQE (SEQ ID NO:4)

QEPALFSTDNDDFTVRN (SEQ ID NO:5)

QKYEAHV PENAVGHE (SEQ ID NO:6)

Peptides for antibodies that bind to matrix metalloproteinase 14  
(GenBank accession number NP\_004986):

AYIREGHEKQADIMIFFAE (SEQ ID NO:7)

DEASLEPGYPKHIKELGR (SEQ ID NO:8)

RGSEFMGSDEVFTYFYK (SEQ ID NO:9)

Peptides for antibodies that bind to anti-cadherin EGF LAG seven-pass  
G-type receptor 2 (GenBank accession number NP\_001399):

QASSLRLEPGRANDGDWH (SEQ ID NO:10)

ELKGFAERLQRNESGLDSGR (SEQ ID NO:11)

RSGKSQPSYIPFLLREE (SEQ ID NO:12)

Peptides for antibodies that bind to anti-cytokeratin 17:

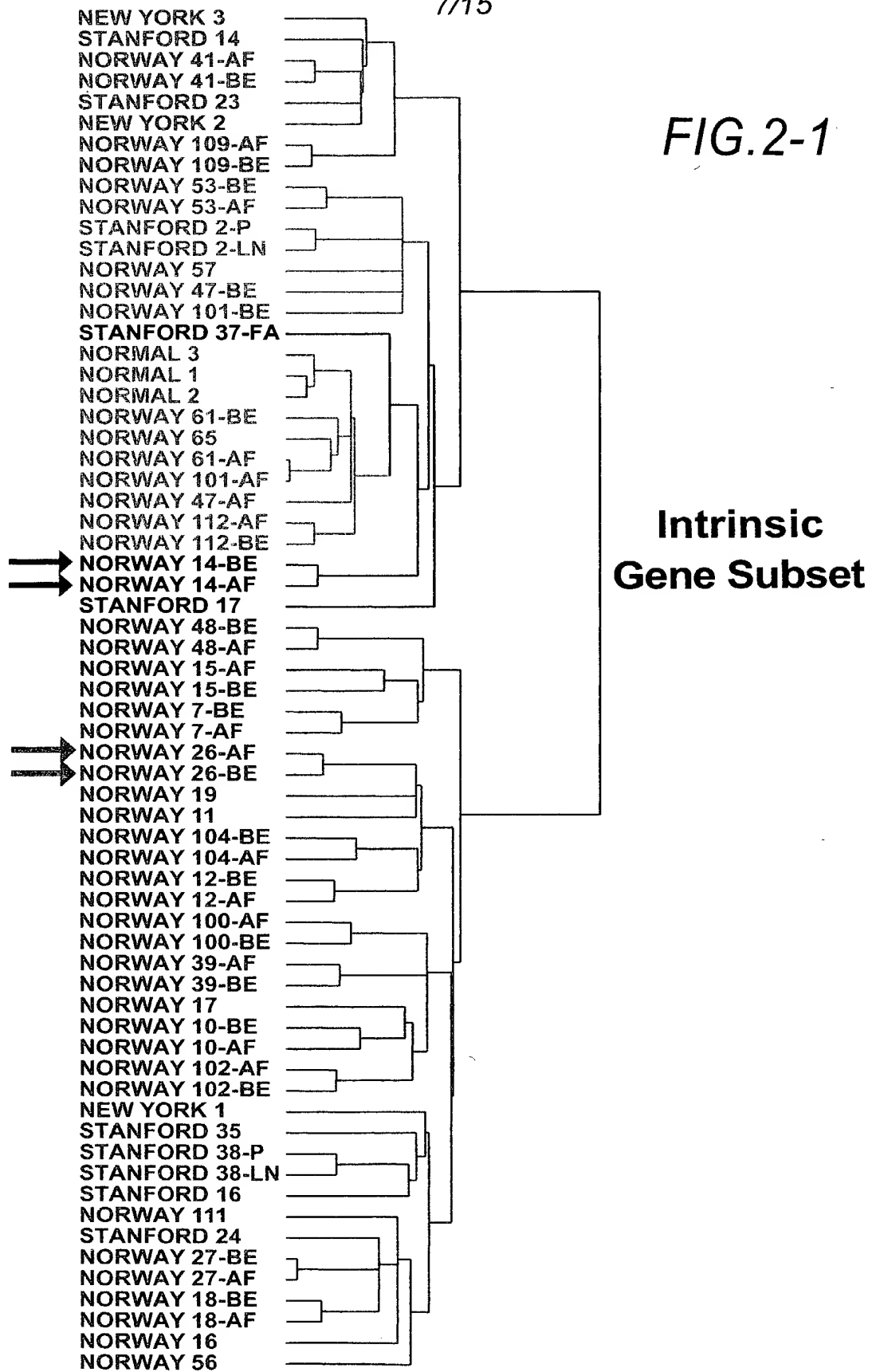
KKEPVTTRQVRTIVEE (SEQ ID NO:13)

QDGKVISSREQVHQTTTR (SEQ ID NO:14)

SSSIKGSSGLGGGSS (SEQ ID NO:15)

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FIG.2-1



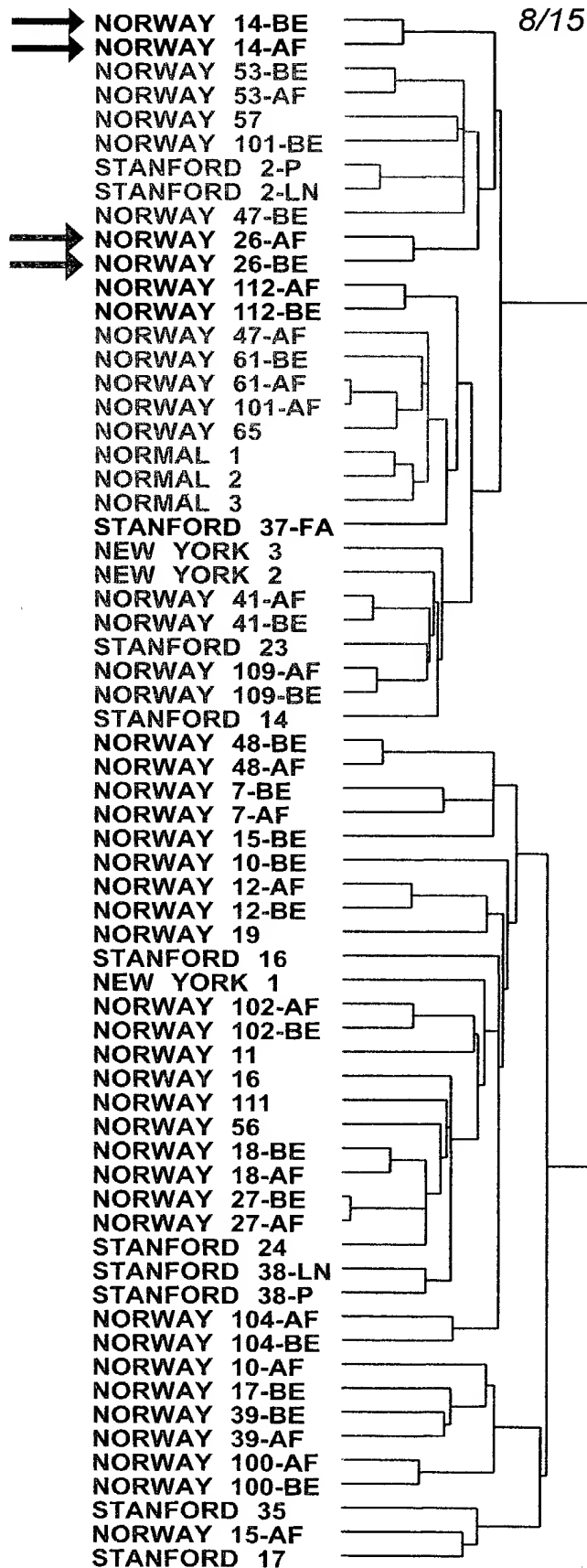


FIG.2-2

**Epithelial-Enriched  
Gene Subset**



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FIG.3A



FIG.3B

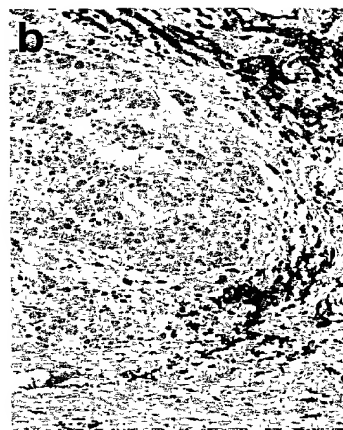


FIG.3C

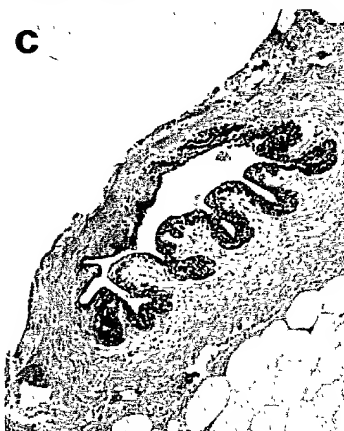


FIG.3D

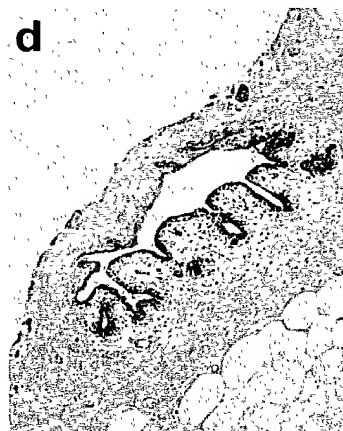
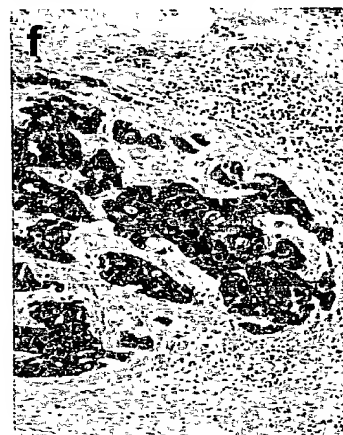


FIG.3E

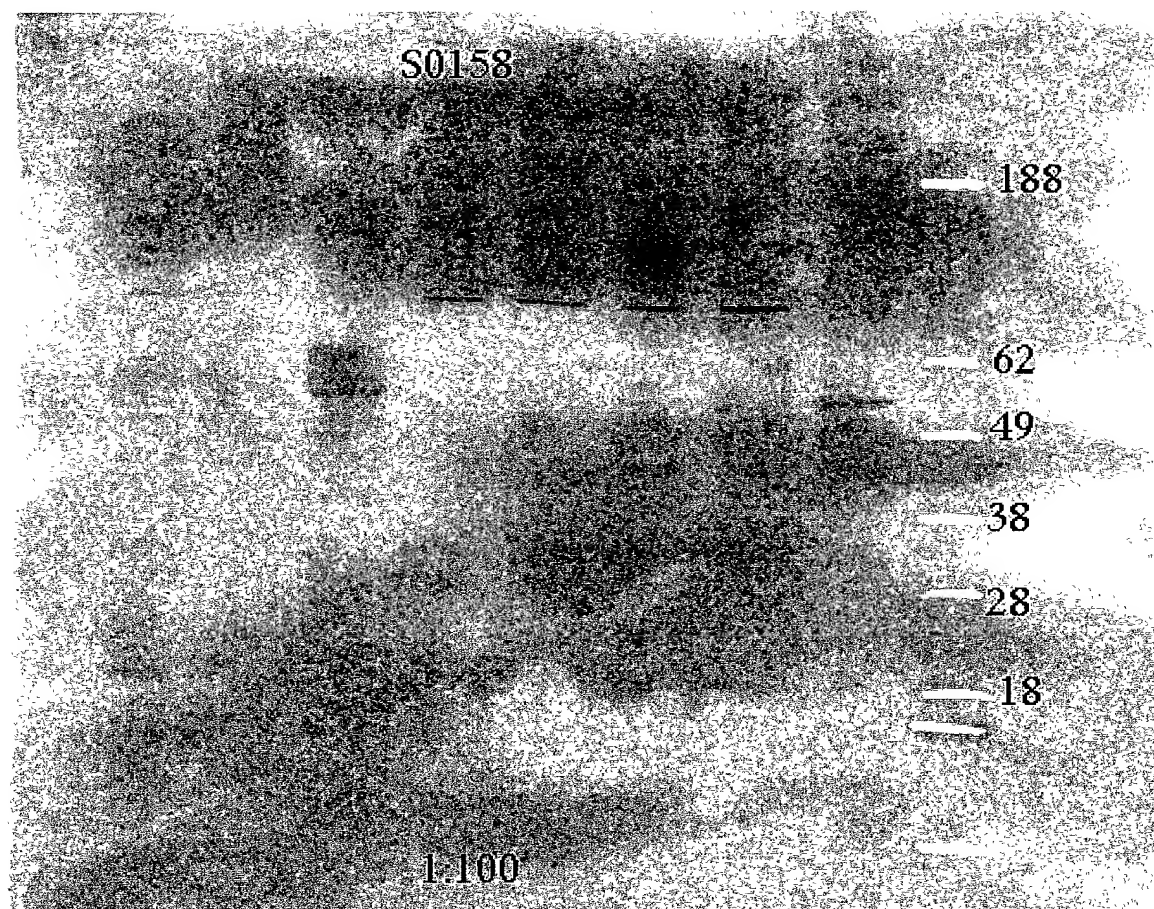


FIG.3F



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FIG.4A



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FIG.5A

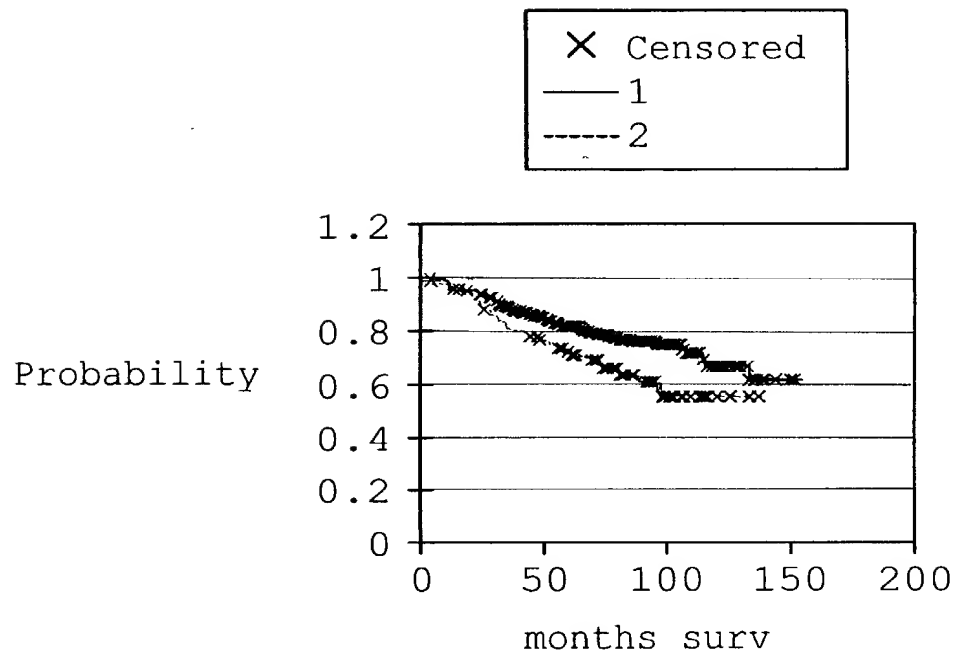


FIG.5B

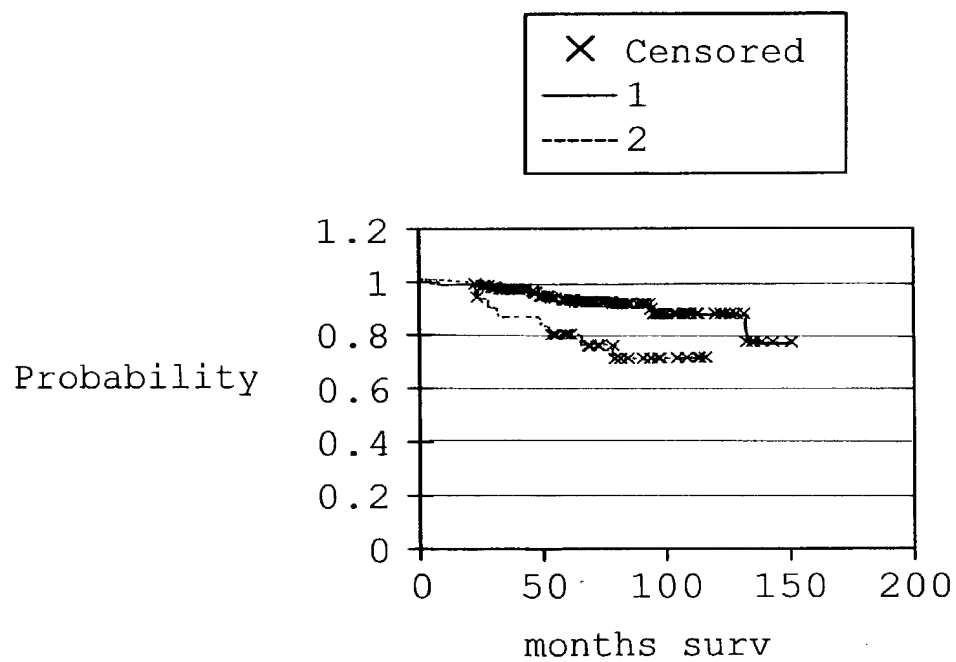
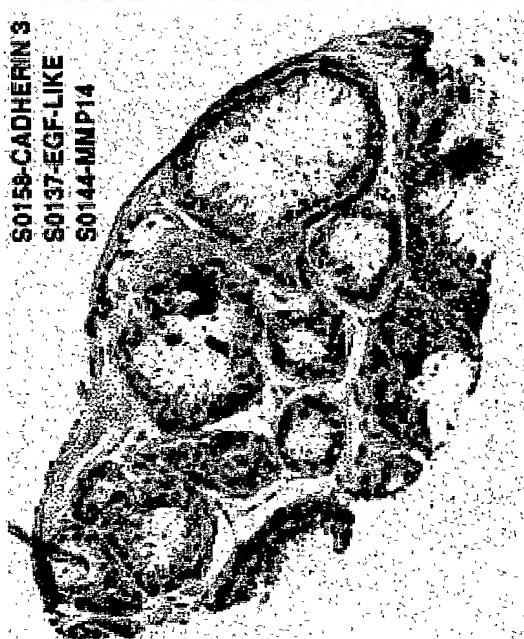


FIG.6A ck5/6



S0158-CADHERIN 3  
S0137-EGF-LIKE  
S0144-MMP14

FIG.6B s0158



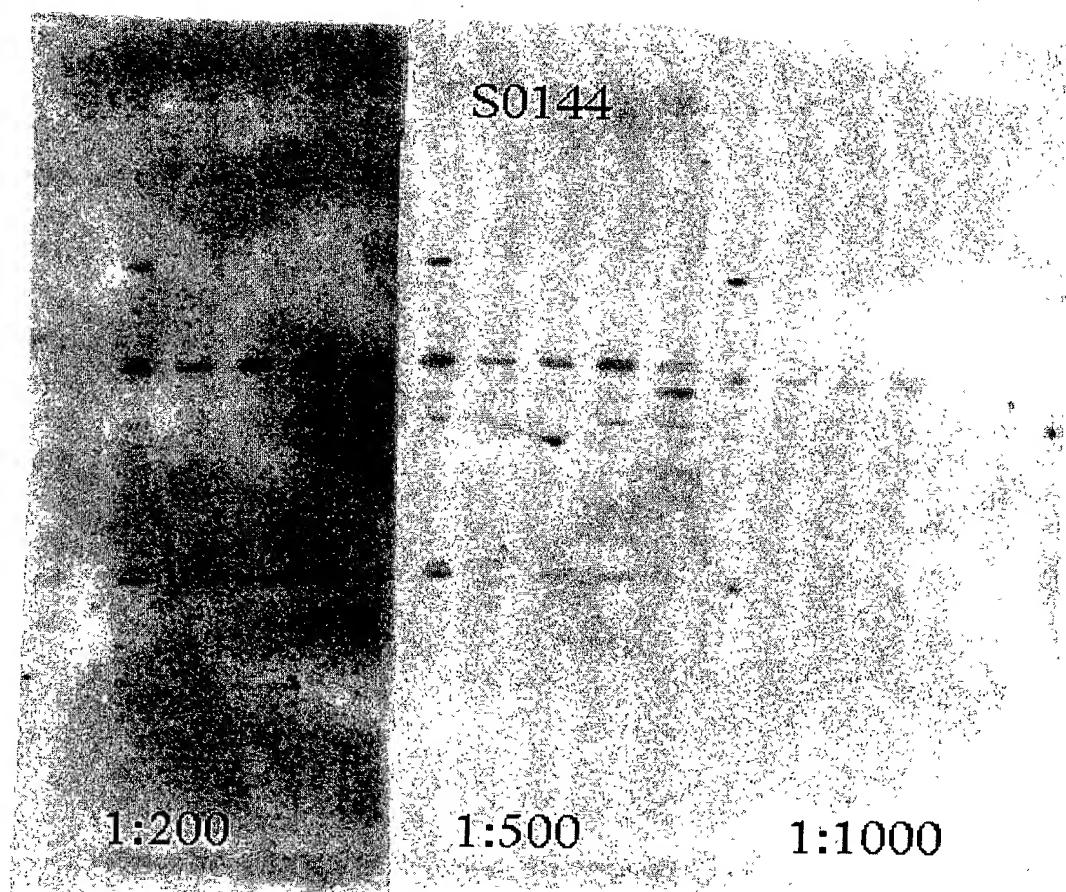
FIG.6C s0137



FIG.6D s0144

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FIG.4B



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FIG.4C

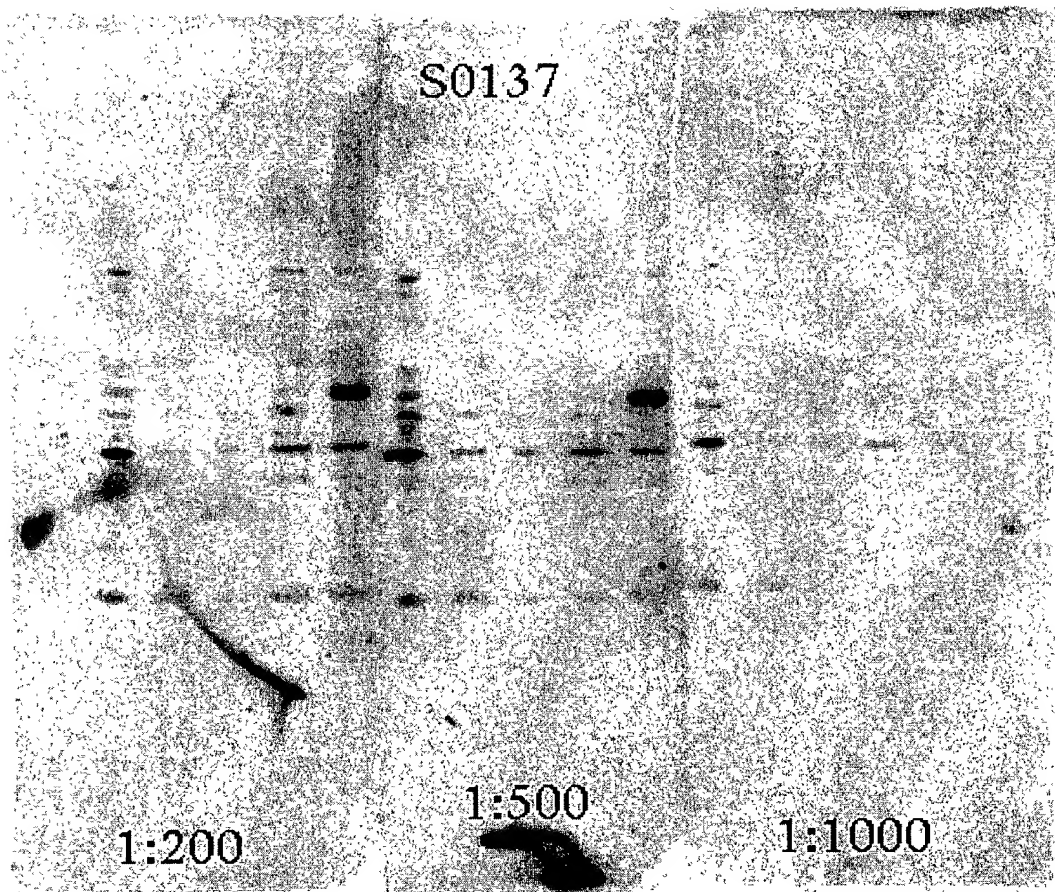




FIG.7B S0137



FIG.7A CK5/6



FIG.7C S0158